SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT, NEAR COAST OF NORTHERN CALIFORNIA, 7 JUNE 1975

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Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Near Coast of Northern California, 7 June 1975

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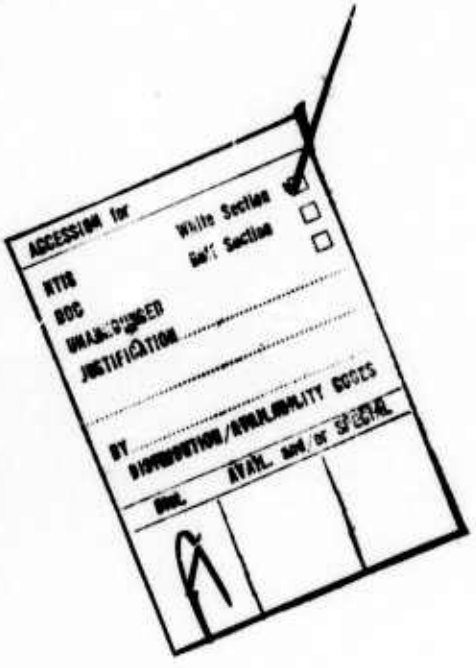

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SDCS EVENT REPORT NO. 65

Near Coast of Northern California, 7 June 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	08:57:48.0	08:46:24	40 N	124 W	5.5	N/A
LASA	08:49:44.2	08:46:10	39.1N	124.3W	5.8	N/A
Hagfors	08:57:56.0	08:46:56	45 N	118 W	6.1	5.8

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

08:46:21.8	40.6N	124.0W	5.3	5.5

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. Horizontal SP channels at all SDCS stations were rotated.

Long-period signals were recorded at all SDCS stations, ALPA, LASA, and NORSAR. The LP vertical instrument at HN-ME was not responding properly. Horizontal LP channels at HN-ME, WH2YK, RK-ON, and CPSO were rotated. Signal clipping at FN-WV prevented rotation of the LP horizontal channels. Validity of the ALPA, LASA and NORSAR long-period vertical beams is questionable and horizontal beams were not included because of program recovery problems.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

Note: The orientation of the radial instruments at FN-WV is assumed to be 316° ± 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 7 JUN 75
08:46:10.0 39.100N 124.300W 0KM.

STA.	ARRIVAL	RESIDUALS CALC	RESIDUALS REST	DIST. REST	AZ. REST
IAC	08 49 44.2	0.2	0.8	14.3	58.7
WH2YR	08 51 09.5	0.0	0.8	21.3	345.1
FR-CN	08 51 28.7	-0.9	-1.9	23.4	53.8
CFC	08 52 36.3	-0.4	.5	30.5	86.9
FN-WV	08 53 07.6	-0.0	0.2	34.1	78.6
HM-ME	08 54 01.1	1.2	0.5	40.4	62.8
NAC	08 57 48.0	-0.1	-0.9	72.4	21.4

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
08:46:35.2	41.108N	123.568W	82. CALC	0.6	4	7
08:46:21.8	40.574N	124.019W	0. REST	1.0	3	7

CALC

```
    0 . 1
  0   .   0
0   1. 2   3
. . . . . . .
C   0. 0   0
  0   .   0
    0 . 0
```

REST

```
    0 . 1
  C   .   0
0   1. 2   3
. . . . . . .
C   0. 0   0
  C   .   0
    0 . 0
```

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.64
MAJOR 78.2KM. MINOR 33.9KM. AZ= 29 AREA= 8333 SQ.KM. REST

DATA SUMMARY

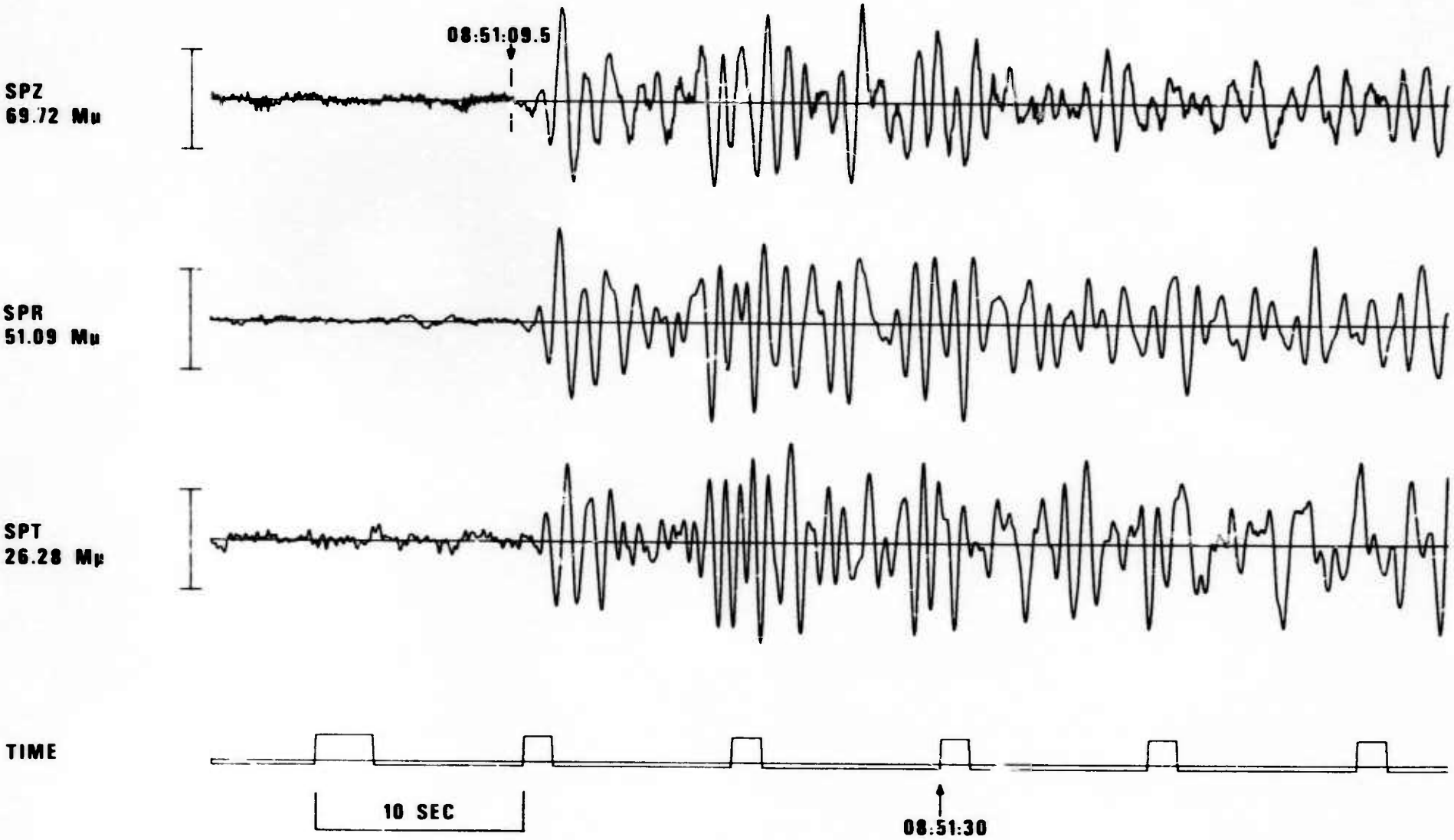
INPUT FOR EVENT 7 JUN 75
08:46:10.0 39.100N 124.300W 0KM.

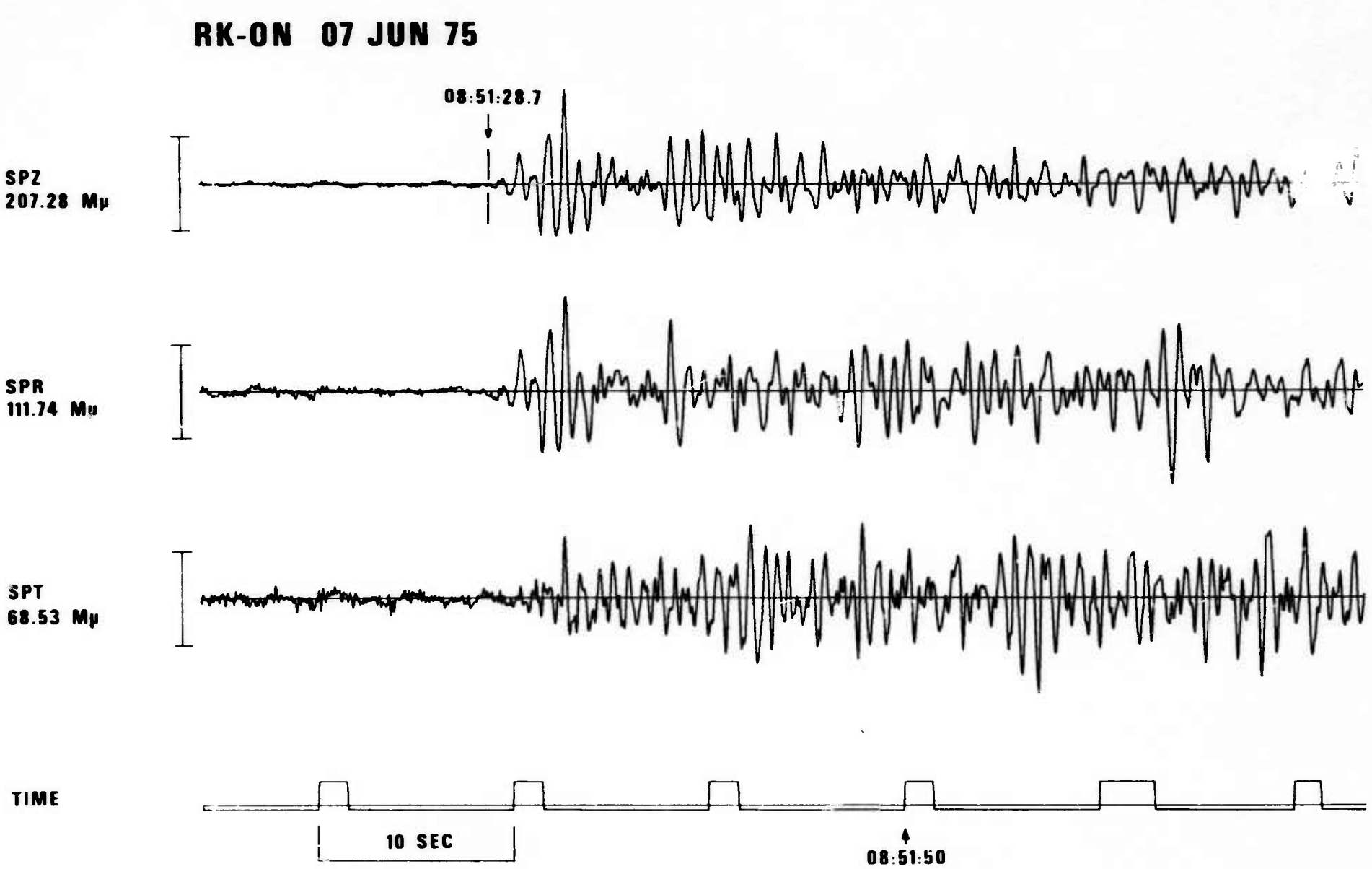
STA.	PHASE	ARRIVAL TIME	INST	PER	A/T	MAGNITUDE MB	MS	DIR	DIST
IAC M	EP	08 49 44.2	AE	0.8	185.	5.41			14.3
IAC	LR	08 55 33.0	IPZ	17.0	1516.		5.45		14.3
WR2YK	EP	08 51 09.5	SPZ	1.1	173.	5.06			21.3
WR2YK	LQ	08 56 53.0	IPT	25.0	1344.				
WR2YK	LR	09 00 23.0	IPZ	19.0	8322.		6.37		21.3
FK-CN	EP	08 51 28.7	SPZ	0.8	241.	5.38			23.4
FK-CN	LQ	08 59 42.0	IPT	21.0	3128.				
FK-CN	LR	09 01 27.0	IPZ	18.0	2422.		5.87		23.4
ALFA	LR	09 01 38.0	IPZ	23.0	89.		4.52		28.2
CPC	EP	08 52 36.3	SPZ	0.7	148.	5.52			30.5
CPC	LQ	09 03 24.0	IPT	23.0	2676.				
CPC	LR	09 05 03.0	IPZ	21.0	857.		5.54		30.5
FN-WV	EP	08 53 07.6	SPZ	0.7	16.	4.60			34.1
HN-ME	EP	08 54 01.1	SPZ	0.9	154.	5.33			40.4
HN-ME	LQ	09 08 29.0	IPT	22.0	382.				
HN-ME	E	09 10 43.0	IPE	17.0	1762.				
NAC	EP	08 57 48.0	AE	1.2	128.	5.71			72.4
NAC	LR	09 28 03.0	IPZ	23.0	282.		5.43		72.4

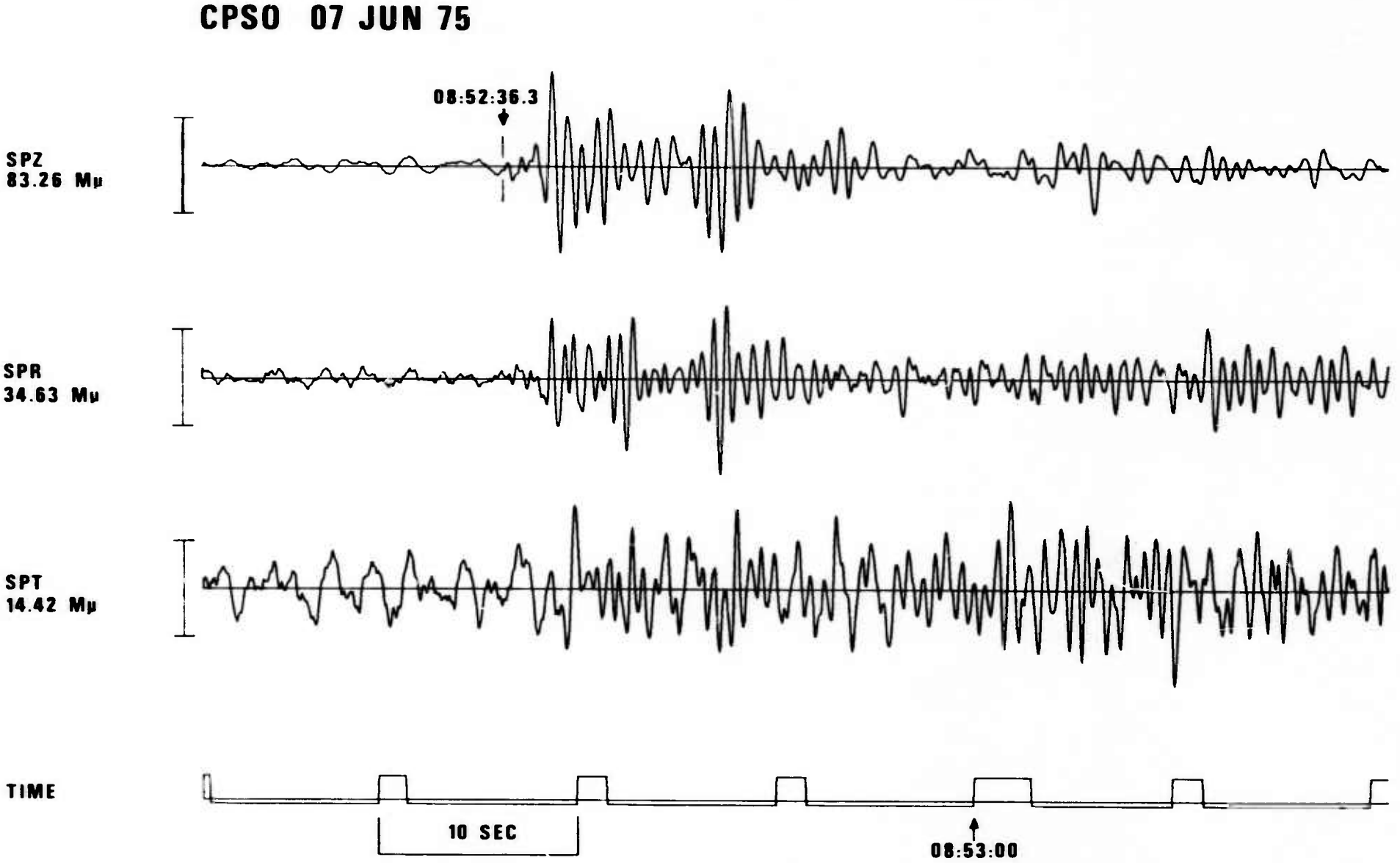
ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	IPMAG	LPSDV	LPSTA
08:46:35.2	41.108N	123.568W	82. CALC	5.18	0.36	6	5.52	0.6	6
08:46:21.8	40.574N	124.019W	0. REST	5.27	0.39	6	5.53	0.6	6

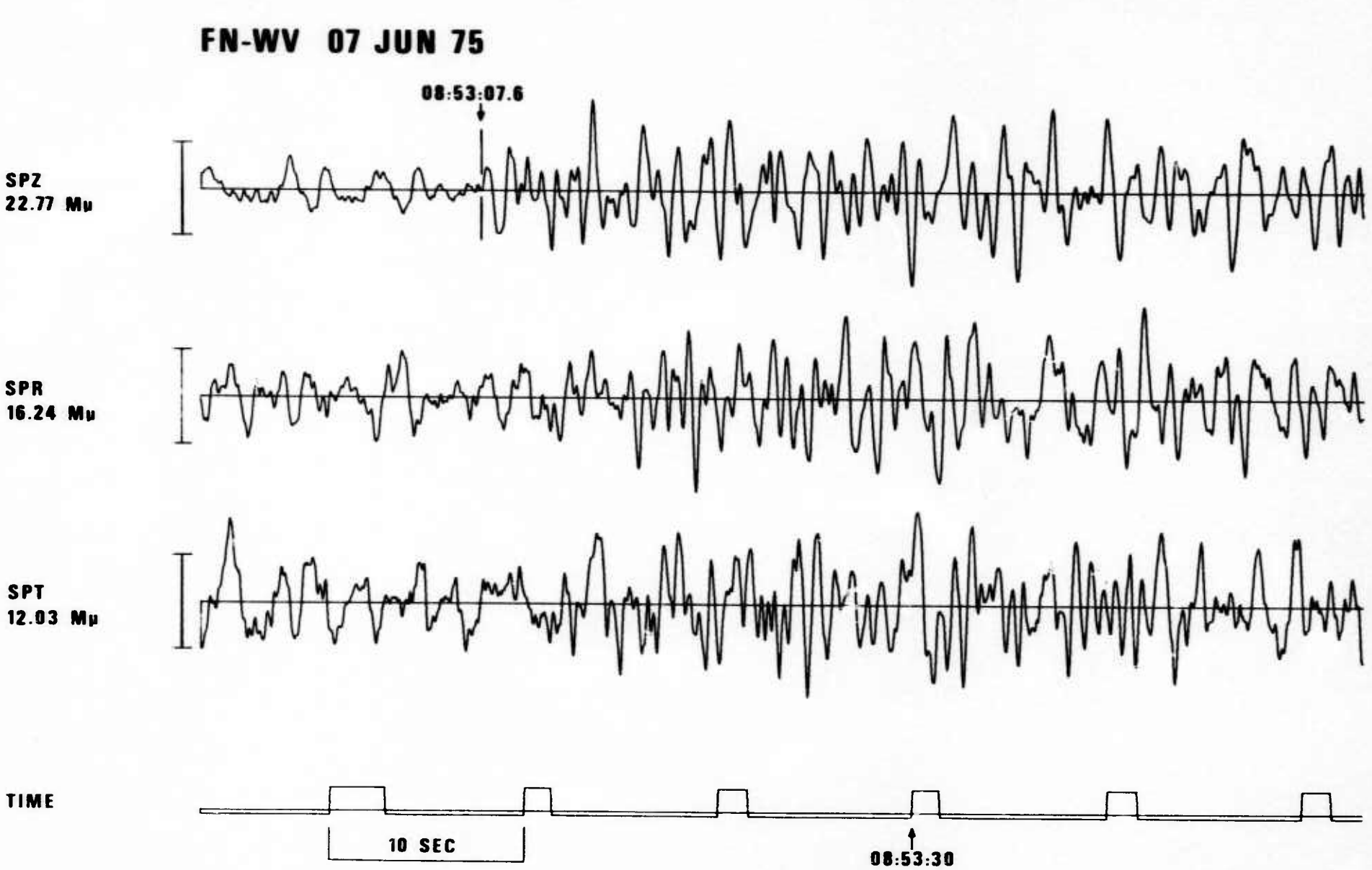
IAC NOT USED IN CALC RUN SP AVG. MAG.
IAC NOT USED IN REST RUN SP AVG. MAG.

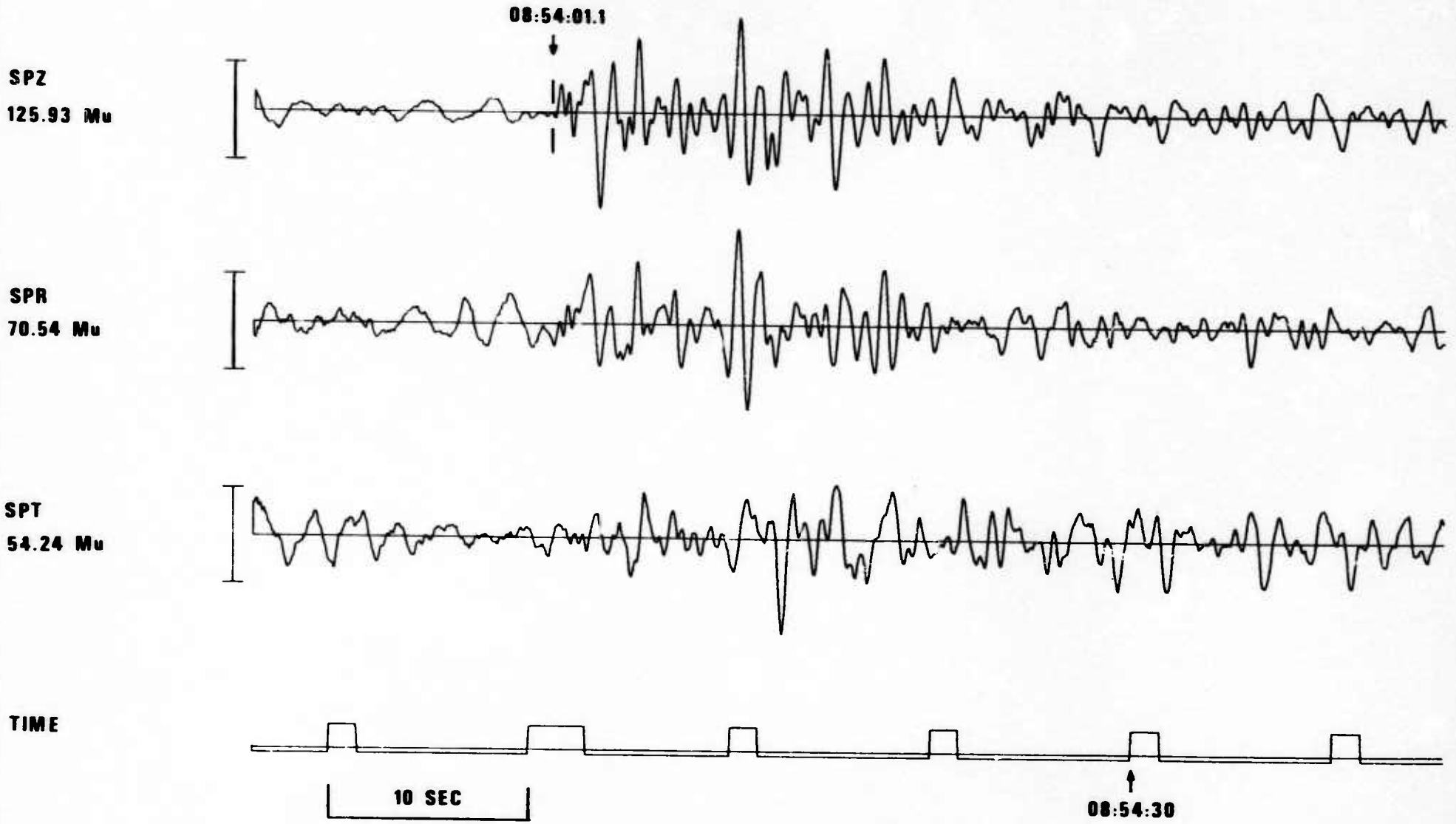
Short-period magnitudes (m_b) used in averaging are restricted to those recorded at distances between 20 and 110 degrees from the epicenter.


WH2YK 07 JUN 75
08:51:09.5
SPZ
69.72 Mμ
SPR
51.09 Mμ
SPT
26.28 Mμ
TIME
10 SEC
08:51:30


RK-ON 07 JUN 75
08:51:28.7
SPZ
207.28 Mμ
SPR
111.74 Mμ
SPT
68.53 Mμ
TIME
10 SEC
08:51:50

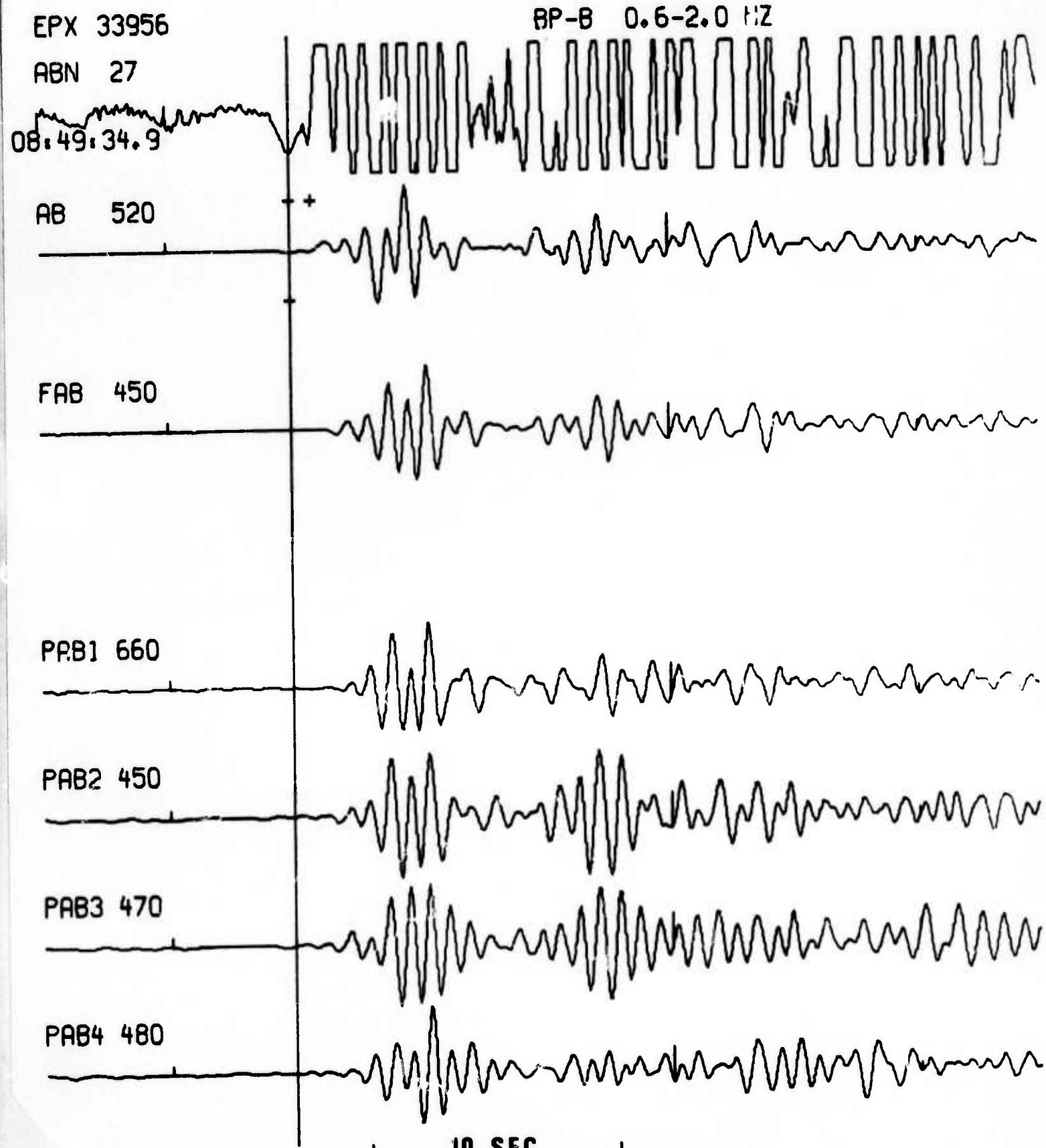

CPSO 07 JUN 75
08:52:36.3
SPZ
83.26 Mμ
SPR
34.63 Mμ
SPT
14.42 Mμ
TIME
10 SEC
08:53:00


FN-WV 07 JUN 75
08:53:07.6
SPZ
22.77 Mμ
SPR
16.24 Mμ
SPT
12.03 Mμ
TIME
10 SEC
08:53:30


HN-ME 7 JUN 75
08:54:01.1
SPZ
125.93 Mu
SPR
70.54 Mu
SPT
54.24 Mu
TIME
10 SEC
08:54:30

LASA

1 7 JUN 1975
2 8 46 11 39.1N 124.3W OG B 5.8 35 NEAR COAST OF N. CALIF.
3 8 49 44.9 LAO P 161.9 0.9 8.5 15.2 247.1

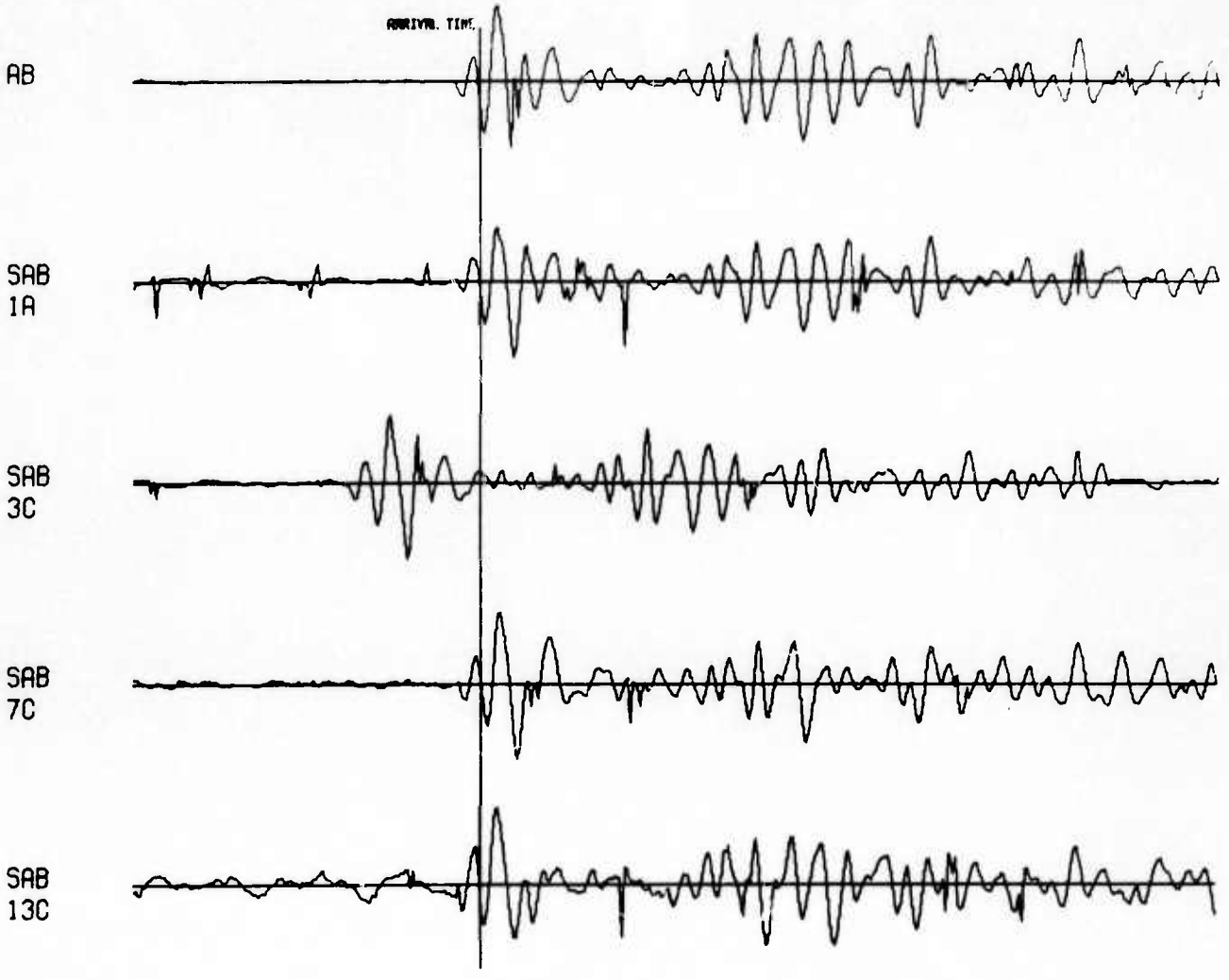


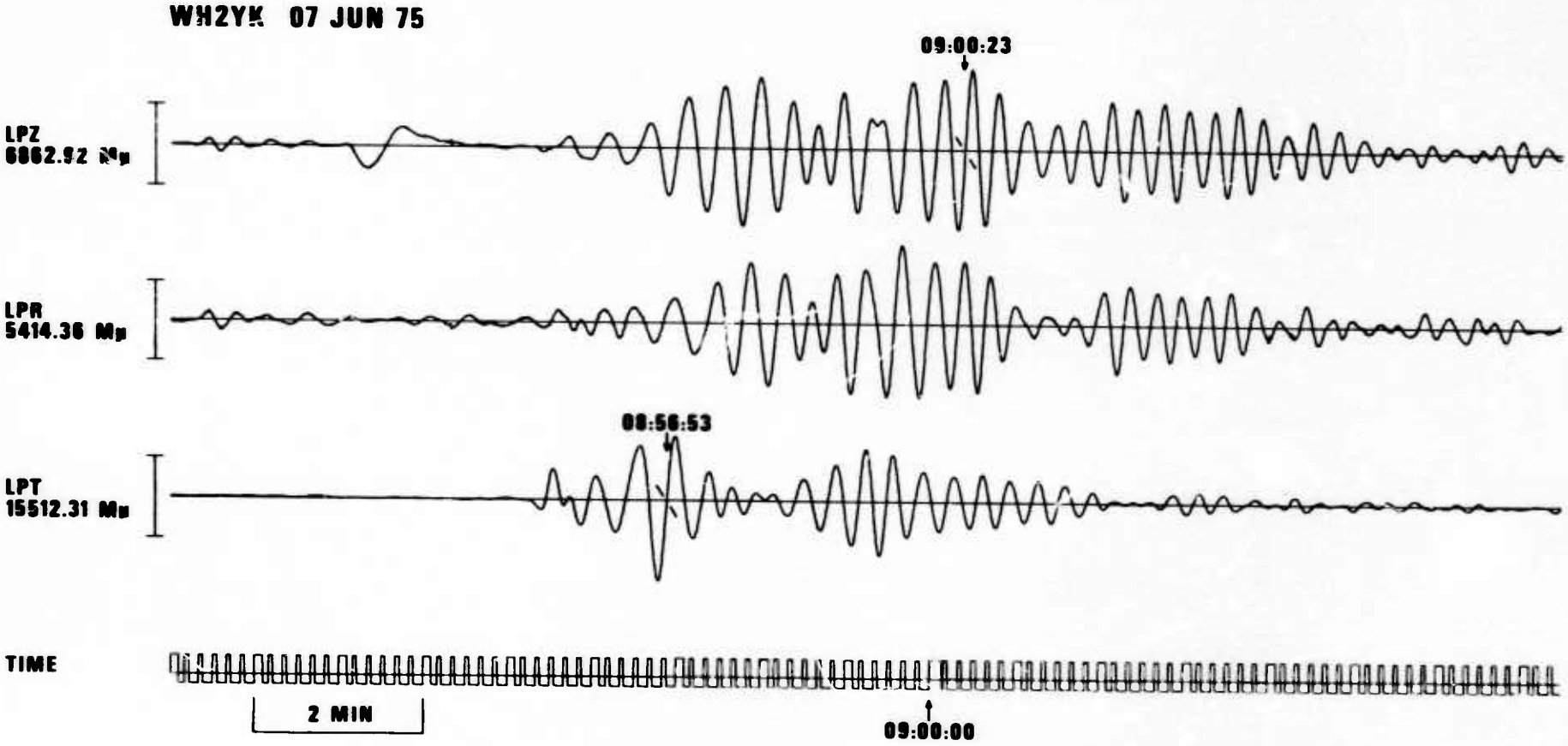
NORSAR EVENT FILE 1975 JUN 7

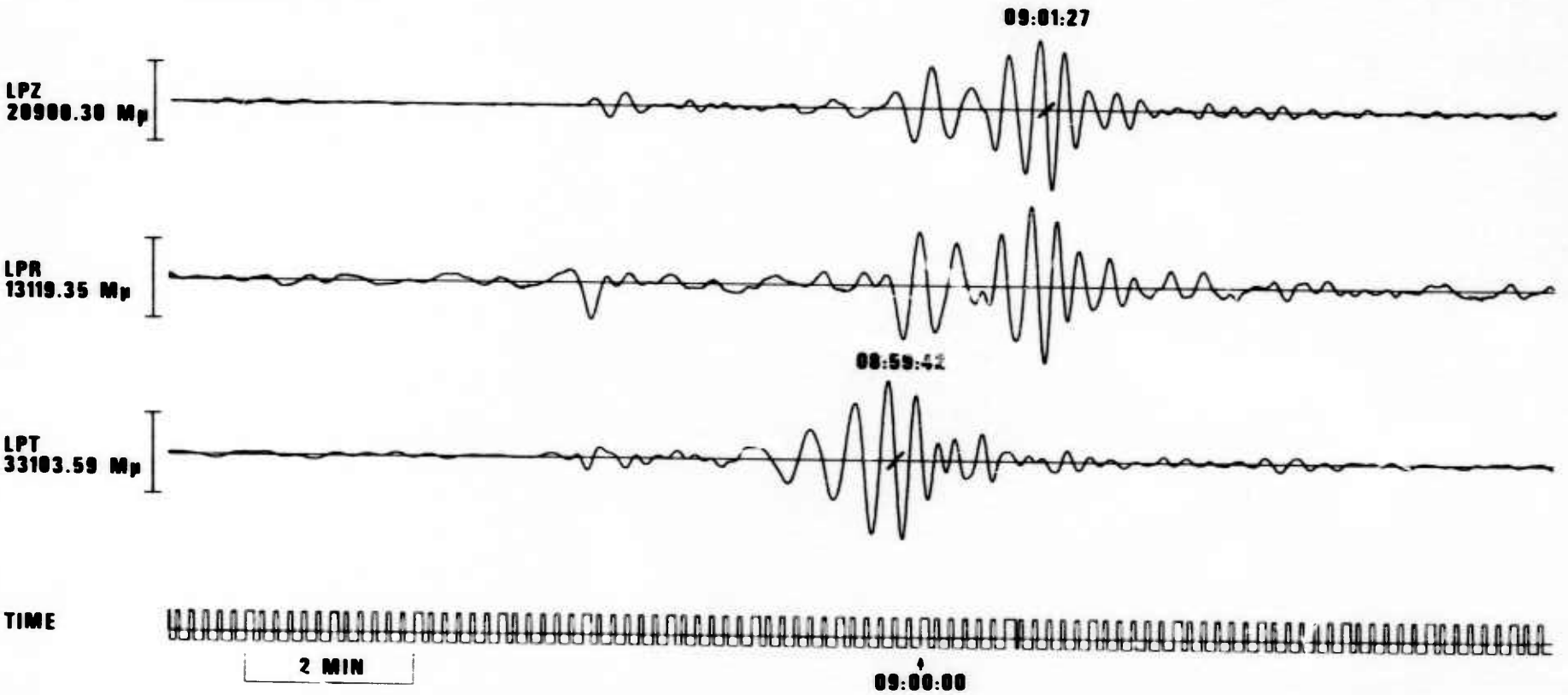
EPX NO. 13520 ARR. 8.57.49.1 40.2N 123.7W 5.3MB 33KM

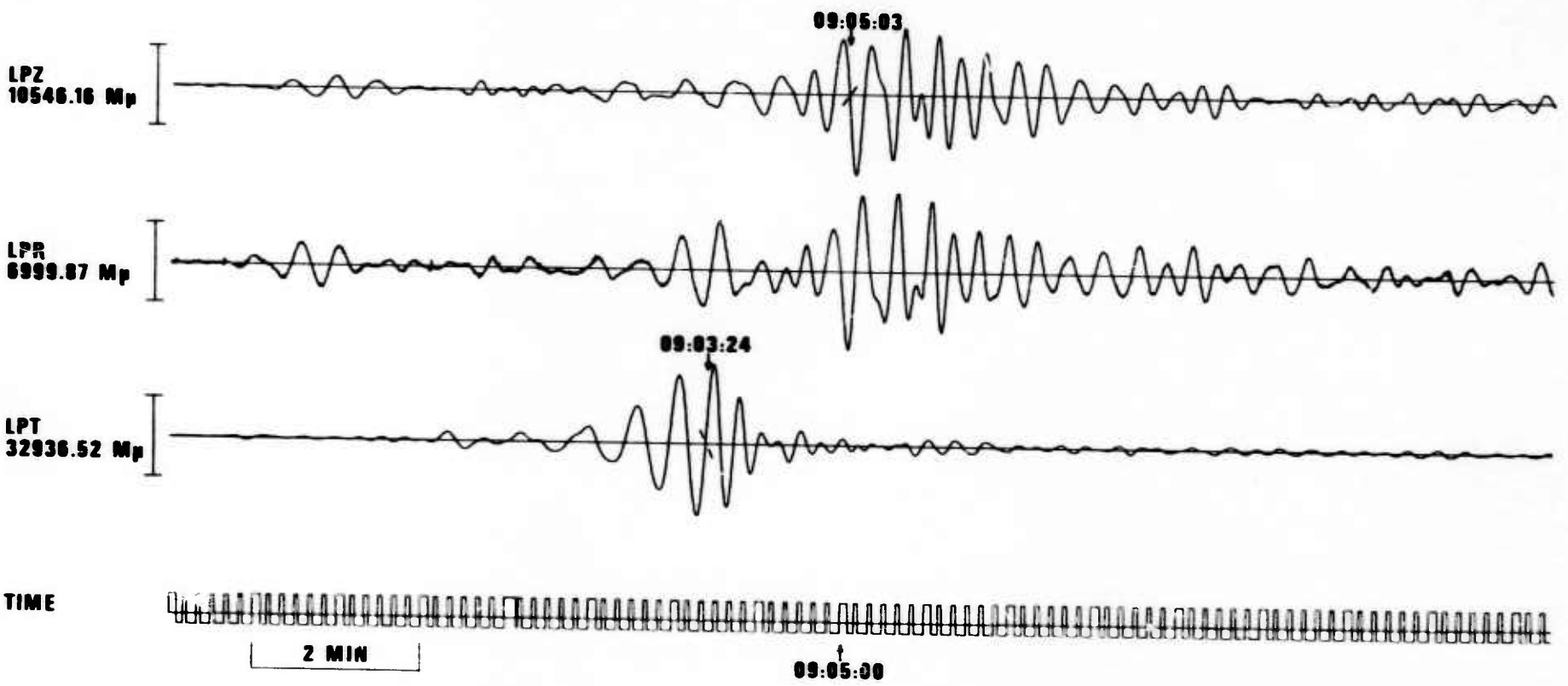
DIST = 72.7 AZI = 325.1 AMP = 41.8 PER = 1.2 UMETH 2

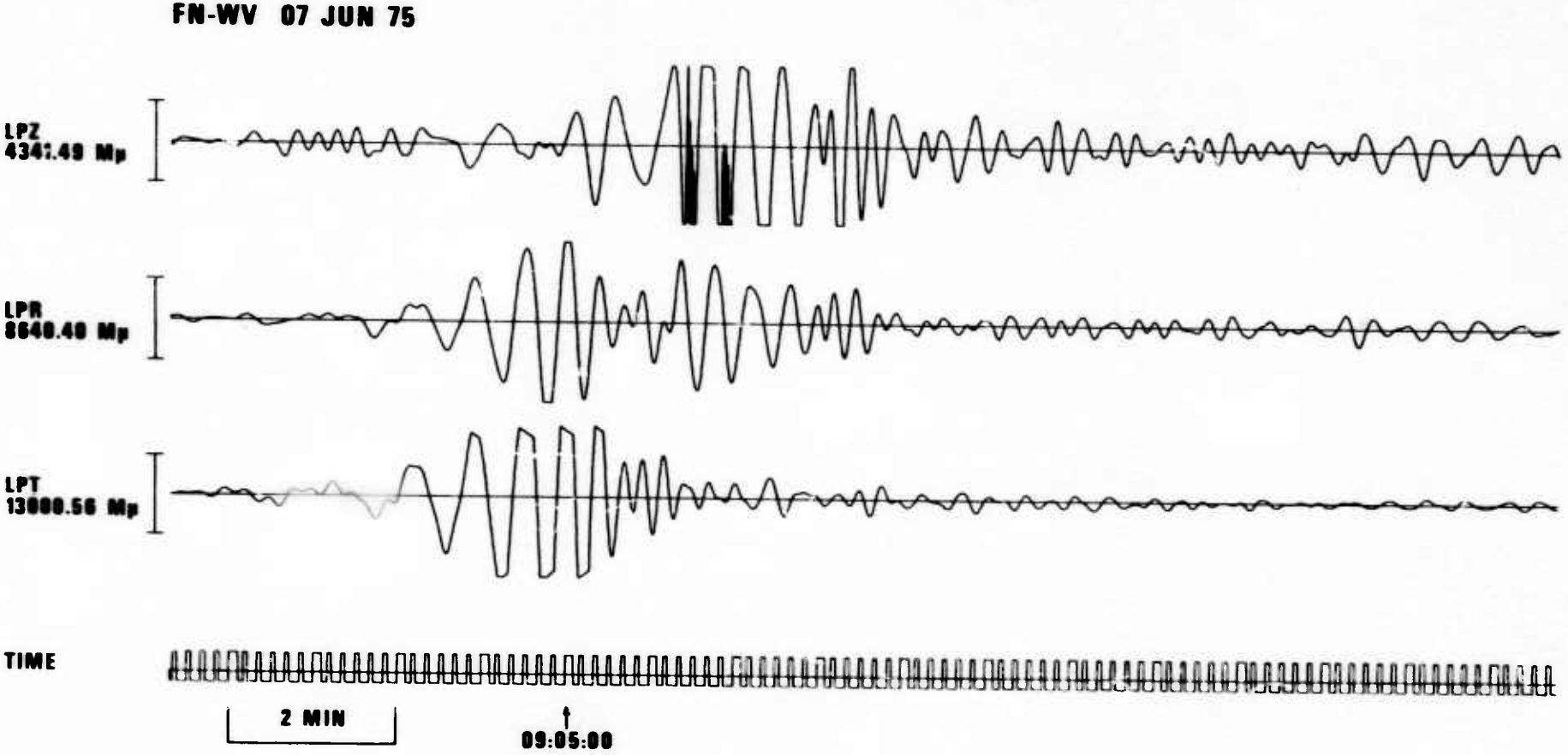
SCALE |_____| = 5 SECONDS

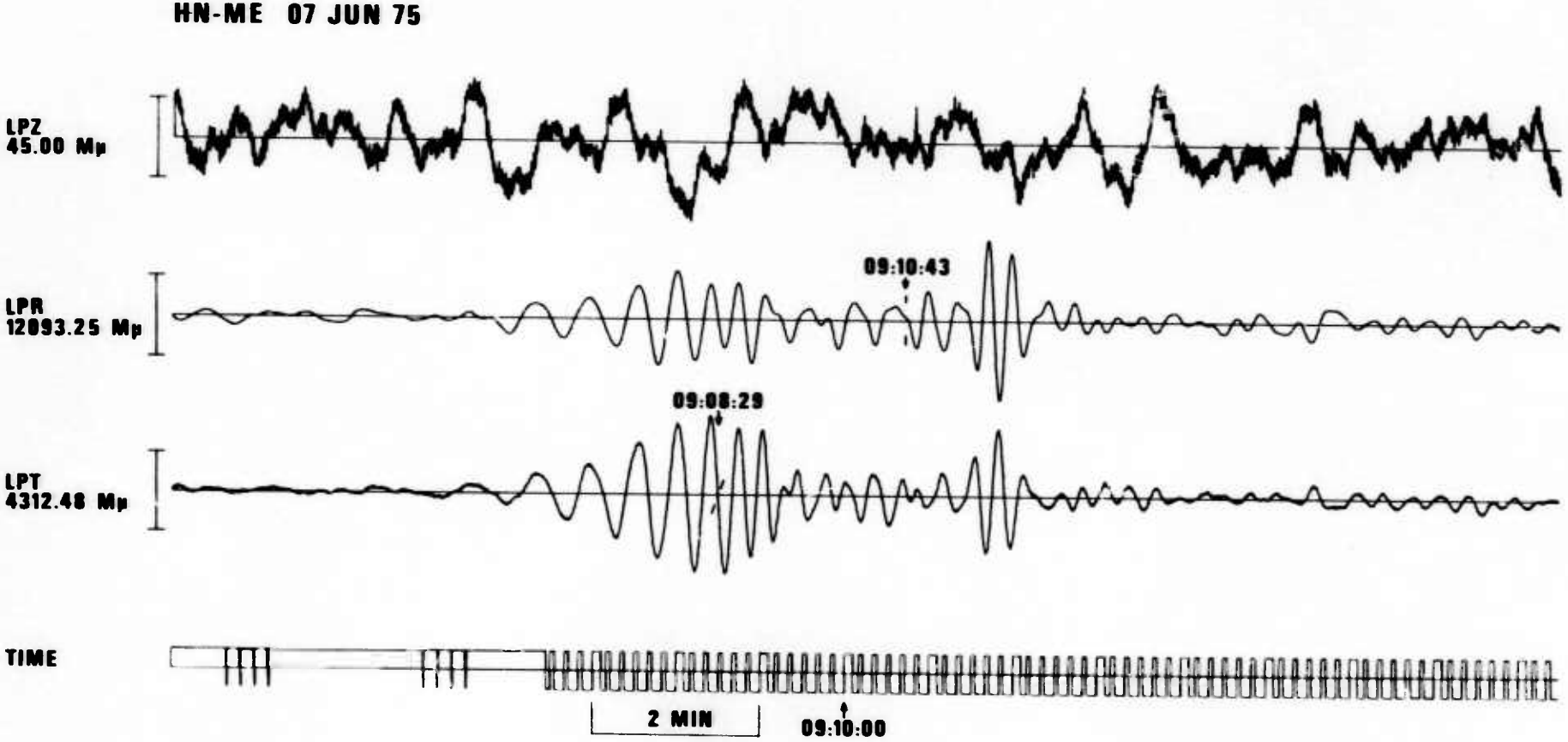



WH2YK 07 JUN 75
09:00:23
LPZ
6862.92 Mμ
LPR
5414.36 Mμ
08:56:53
LPT
15512.31 Mμ
TIME
2 MIN
09:00:00


RK-ON 07 JUN 75
09:01:27
LPZ
20988.38 Mμ
LPR
13119.35 Mμ
08:59:42
LPT
33103.59 Mμ
TIME
2 MIN
09:00:00


CPSO 07 JUN 75
09:05:03
LPZ
10546.16 Mμ
LPR
6999.87 Mμ
09:03:24
LPT
32936.52 Mμ
TIME
2 MIN
09:05:00


FN-WV 07 JUN 75
LPZ
4341.49 Mμ
LPR
8648.48 Mμ
LPT
13088.56 Mμ
TIME
2 MIN
09:05:00


HN-ME 07 JUN 75
LPZ
45.00 Mμ
LPR
12893.25 Mμ
09:10:43
LPT
4312.48 Mμ
09:08:29
TIME
2 MIN
09:10:00

ARRAY LONG PERIOD VERTICAL BEAMS 07 JUN 75